SANJAYA KUMAR SAHOO

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Executive Digest

* Over 13+ years’ experience in Geospatial Technology as a Technical Lead
* Good experience in the fields of Navigation, Addressing, Utility, Mining, Land base Management, Water Management projects
* Project Coordination and management of Geospatial Data Projects
* Support and Implementation of standards and technical specification for the production of spatial data and map production
* Provide training on Data Production and QC techniques to the staff
* Documentation of QA/QC procedure of incoming data
* Expertise in ESRI ArcGIS Desktop and ArcSDE
* Deep understanding of GIS Spatial Analysis & Digital Cartography
* Good knowledge of AutoCAD software and GIS Hardware-Software components
* In-depth knowledge of GIS database design concepts and database structure
* Expertise to create maps using ArcGIS and other software tools
* Merit of executing projects for prestigious clients like PennWell MapSearch, Ultratech Cement and Motorola

Professional Work Experience

Current Employer : Capricot Technology Pvt. Ltd., Delhi

Industry : Geo Spatial Engineering

Designation : Sr. GIS Engineer

Role : Project Management, Arc GIS &Auto CAD Trainer

Duration : 20th May 2016\_\_\_\_\_till now

Previous Employer : Genesys International Corp. Ltd, SEEPZ, Andheri (E), Mumbai-96

Industry : Geo Spatial Engineering

Designation : Team Lead

Role : Project Documents, QA/QC & Team Management

Duration : 16th Aug 2007 to 6th May 2016

Previous Employer : Dask System Solution

Industry : Geo Spatial Engineering

Designation : GIS Executive

Role : Production & Quality Check

Duration : 10th June 2005 to 25th June 2007

GIS Project Experience

* Team Supervisions/Training
* Mapping, GIS Data Migration, Work allocation
* Cadastral Mapping
* Analyzed component layers and structure of spatial data
* Provided Internet and Web based support
* Maintained high attention to detail of data standards, naming conventions, Quality Checking and Quality Assurance of GIS Database
* Identified Data issues and recommending solutions
* Coordinated the continuous development, operation and maintenance of the GIS Projects
* Client Interaction & Support
* Field Survey/Supervision
* Land Use - Land Cover Analysis, Surface Analysis &Mining Mapping

Technical Skill

* GIS & Mapping Software: AutoCAD Civil 3D 2016,AutoCAD Map 3D 2016, Autodesk Raster Design 2016, ESRI ArcView3.2, ESRI ArcGIS 10.4.1, Q-GIS 2.18.7, Global Mapper 12
* Image Processing Software :ERDAS Imagine
* GPS Software: Trimble Pathfinder Office, Trimble Geomatics, OmniSTAR
* **GPS Instrument:** GeoXT (2800 series),R3,Trimble 5700
* **Data Base :** ESRI ArcSDE, Oracle SQL
* **Other Software :**Microsoft Office Suite, Open Office Suite

Achievements

* Electrical Utility Mapping Project

Genesys International Corp. Ltd’s “Propel Star Employee of the Month” for outstanding contribution as QA a Member for the month of November 2008

* Academic Merit List

Awarded merit certificate for securing First Class 1st Position in M.Sc. Exam – 2004

Projects Involved/Co-ordinate/Executed

**Project: ULB MAPPING**

Project Name:AMRUT (Atal Mission for Rejuvenation and Urban Transformation)

Client Name:DOIT&C, Rajasthan

Role:Project Support

Team Size: 50

Software:Auto CAD Map 2016, ArcGIS 10.4.1,

**Project Scope & Responsibility:-**

The components of the AMRUT project consist of capacity building, reform implementation, water supply, sewerage and septage management, storm water drainage, urban transport and development of green spaces and parks.

* Geo-reference of Satellite Image as reference to DGPS Point
* Geo-reference of Existing and Proposed Land Use raster map
* Base Map & Land use Land cover creation as per satellite data
* Update all existing POI information to the current LULC data which created as reference to satellite data
* Comparison of Existing LULC maps with Proposed Map and create a new proposed map for Planning and Development Dept.
* Map Composition for Existing and Proposed map for Field verification and updation
* Project Management & Training

**Project: LAND RECORD MODERISATION PROJECT**

Project Name: NLRMP

Client Name: Land Record Division, Shimla, H.P

Role: Project Management

Team Size: Training to Govt. Employees

Software: Auto CAD Map 2016, ArcGIS 10.4.1, MS Excel

**Project Scope & Responsibility:-**

The major components of the NLRMP project are computerization of all land records including mutations, digitization of maps and integration of textual and spatial data, survey/re-survey and updation of all survey and settlement records including creation of original cadastral records wherever necessary, computerization of registration and its integration with the land records maintenance system, development of core Geospatial Information System (GIS) and capacity building.

* DGPS Survey for Permanent Pillar establishment for ETS survey.
* ETS Survey of Land parcel and create new village map
* Scanning of Cadastral map and conversion of from Raster to Vector
* Map comparison of existing cadastral amp with New village map which created from High-tech survey technique
* Adjust parcel boundary as per ROR data
* Map composition and Printout individual parcel information and take approval for village people
* After approval from village people publish village map in Govt. website (Bhunsakha)

**Project: MINING GIS-GPS based Web Application Development**

Project Name:Ultratech Cement

Client Name:Ultratech Cement Limited

Role: As a Project lead

Team Size:20

Software: Auto CAD Map 2016, ArcGIS 10.1, Global Mapper 9, Trimble Pathfinder Office, Trimble Geomatics Office, ArcSDE, Microsoft SQL Server

**Project Scope & Responsibility:-**

The Scope of the work is creation of geospatial solution for “Comprehensive Terrain Information System for the entire Lease hold/Mineral bearing/exploration area “falling under the jurisdiction for Ultratech Cement.

* Conduct survey for Mining Lease, Plant and Colony Boundary using DGPS
* Collect the Control points using GeoXT (2800 series), R3 and Trimble 5700 and Post process the data with the help of Trimble pathfinder Office/ Trimble Geomatics
* Registered the Satellites images and Village Maps using GCP collected by GPS
* Visit different location of Ultratech cement unit for DGPS survey.
* Process DGPS data for Geo-reference satellite image and cadastral map
* Extraction of Mining Lease details from Cadastral Map and Satellite Data (i.e Mining Lease Boundary, Site Intent Area, Belt Corridor,Plant & Colony Information, Transport Details ,Contour, Land Parcel)
* ROR Data and Cadastral Parcel Linking
* Prepare report of Purchase and Balance land details
* Linking of attribute data & statutory documents
* Document test cases of ML & Land information report and test all these functionalities available in land information web based application
* Conducted UAT
* Prepare report sheet as per comparison between input data sheet with system generate report

**Project Type: GIS APPLICATION IN IRRIGATIOAN AND WATER RESOURCE MANAGMENT**

Project Name: KBJNL

Client Name: Krishna BhagyaJala Nigam Ltd (KBJNL)

Role: As a Project lead

Team Size: 30

Software: Auto CAD 2004, ArcGIS 10, Global Mapper 9, OmniSTAR, GeoXT, MS Excel

**Project Scope & Responsibility:-**

Preparing GIS data base from existing hard copy maps and linking existing information data base to GIS to facilitate analysis and management.Mainly this project is regarding automation of water irrigation through SCADA using GIS database .Reference of all inputs we need to create base map & Thematic maps and shared this data set with the IT team to incorporate in application from which water board of Karnataka Govt. will check the data for efficiently tracking of Irrigation as well as water supply to the farmers.

* Data Base Modeling
* Administrative Boundary Creation
* DGPS survey for satellite image geo-referencing
* GCP Collection of Well points and Canal Gate Points
* Base Map Creation from Satellite Data(i.e. Canal Network, River Network, Water Body, Transport, Building & Utility)
* Land Use & Land Cover Mapping
* Contour Map Creation
* Cadastral Mapping
* Thematic Map (Geomorphology, Soil, Ground Water, Well Location, Lithology)
* GIS Application

**Project:**CIDCO terrestrial and Land base mapping

Project Name: CIDCO

Client Name: CIDCO

Role: As a Team lead

Team Size: 15

Software: Auto CAD 2004, ArcGIS 10, Global Mapper 9, MS Excel

**Project Scope & Responsibility:-**

The scope of the project is to carry out topographical survey and prepare Existing Land Use Maps of Specified AOI.

* Need field survey for the entire projected area
* Collection of Ground Control Points
* Carrying out and setting up bench marks & reference pillars / stones
* Contouring
* Base Map preparation by taking field collected data & Satellite Image
* Cadastral preparation by taking Village wise Tahasil Map collected data.
* Existing Land Use classification by taking Base Map & Cadastral data.

**Project: GIS-GPS Based Wind Turbine Analysis & Database Creation**

Project Name:Suzlon-Wind Turbine Analysis

Client Name:Suzlon Energy Limited

Role: As a Team lead

Team Size: 15

Software: Auto CAD 2004, ArcGIS 10, Global Mapper 9, OmniSTAR, GeoXT, MS Excel

**Project Scope & Responsibility:-**

* Using GeoXT (GPS) collected Ground Control Points
* Collected wind turbines points, mast points and high/low Electric pole
* Delivered the analyzed database with Electric Network and Land Use/land Cover dataset
* DGPS measurement
* Process GCP data and check these points over Satellite Imagery where all points are overlay in their actual position.
* Base Map Preparation
* For Land use and Land cover datasets prepared a report sheet whether attribute information details are matched with client inputs

**Project: Development of Geospatial Land Record Database**

Project Name: Punjab Land Record Modernization

Client Name: Punjab Land Record Society, Government of Punjab

Role: As a Team lead (On-site)

Team Size: 10

Software & Resources: AutoCAD 2004, ArcGIS 9.3, Trimble Geomatics Office, Trimble 5700

**Project Scope & Responsibility:-**

* Computerization of all land records - mutation, digitization & integration of spatial data
* Survey/re-survey and updation of all survey and settlement records/cadastral records
* Development of core GIS Database and its integration with the Land Records System
* Responsible for Pillar points demarcation through DGPS measurement using total station survey
* Collect all boundary points of land details through ETS & Processing all ETS points
* Overlay digital data over Satellite Image and link ROR details of each parcel

**Project: Cadastral Mapping& Database Development**

Project Name: ORSAC (Plot Boundary Vector Database Creation from Orthoimages)

Client Name: Orissa Space Application Centre, Government of Orissa

Role: As a Team lead (On-site)

Team Size: 15

Software: AutoCAD Map 2004, ArcGIS 9.3

**Project Scope & Responsibility:-**

* Registration and Vectorization for village boundaries of existing cadastral Maps
* Finally vector database ware finalized after interpretation from image, ground survey and existing cadastral maps and integrated in ESRI ArcGIS environment
* Responsible for Pillar Points demarcation through DGPS measurement for Total Station survey
* Take all boundary points of land details through ETS and Processing all ETS points and digitization as per the ETS comments

**Project: Integrated GIS Vehicle Tracking for Homeland Security**

Project Name: IGVTDC Project (Integrated GIS Vehicle Tracking Distress Call Response)

Client Name: Kolkata Police (West Bengal, India)

Role: As a Team Lead (On-Site)

Team Size: 100

Software: AutoCAD 2004, ArcGIS 9.2, MS Excel

**Project Scope & Responsibility:-**

* Call Response for Emergency Services
* Realignment the Existing Data with the help of Ortho Images and conducted field Survey to populates the attribute fields
* During field Survey conducted door to door survey and collecting all the information
* As a team supervisor conducted Field visit and Quality Analysis (QA) of entity details and road name collected by survey team
* Updated all these details in GIS database and prepared a GIS Data base

**Project: Geo-coding, Addressing and Routing**

Project Name: MOTOROLA (GIS database to let call-takers immediately pinpoint locations) Client Name: MOTOROLA Corporation (U.S.A)

Role:As a QA Member

Team Size: 30

Software: AutoCAD 2004, ArcGIS 9.2

**Project Scope & Responsibility:-**

* Developed a visual tool that helps call takers identify precise locations leverages existing GIS capabilities to optimize resource allocation, schedule work
* Map Viewer uses landmarks retrieved from a GIS database to let call-takers immediately pinpoint locations and match requests to exact addresses
* Visual validation of service request location helps dispatchers quickly plan assignments and field personnel plan the most effective routes

**Project: Electrical Utility - Transmission Mapping & Database Creation**

Project Name:Pennwell (Electrical Utility Project)

Client Name:PennWellMapSearch Corporation (U.S.A)

Role: As a QA Member

Team Size: 150

Software & Resources: AutoCAD 2004, ArcGIS 9.2, ESRI ArcSDE, Google Earth, MS Virtual Earth, Arc2Earth Plugin, X-tools

**Project Scope & Responsibility:-**

* Realignment the existing spatial database of Point features (Transmission Substation, Hydro Plant, Biochemical, Coal Plant) and Transmission lines with the help of Arc2Earth, Google Earth and MS Virtual Earth and Capture the new/missing features as per Scanned Electrical Transmission Maps.
* Topology creation and conducted QC using ArcGIS Personal and ArcSDE GeoDatabase
* Responsible for Quality Check and Quality Analysis, Client Interaction & Data delivery

Academic Qualification

* Post Graduation (M. Sc.) in Geology from Khallikote (Autonomous) College, Berhampur, Orissa and percentage of mark is 81%

* +3 Science in (Physics, Chemistry and Geology) from Banki College, Banki under Utkal University, Orissa and percentage of mark is 60%
* CHSE in Science (Physics, Chemistry, Mathematics) from Banki College, Banki under CHSE, Orissa and percentage of mark is 39%
* HSC from Board of Secondary Education, Orissa and percentage of mark is 64%

Academic Projects

* Geological Mapping on Bhabhanda Area (Ganjam District, Orissa)
* Geological Mapping on Gondwana Coal Basin (Sundargarh District, Orissa)

Personal Details

Fathers name : BiswanathSahoo

Date of Birth : 25th June 1982

Nationality : Indian

Religion : Hinduism

Gender : Male

Marital Status : Married

Language Known : Oriya, English, Hindi, Bengali

Declaration

I consider myself experience with Geospatial Technological Aspects and Team handling. I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Jaipur Sanjaya Kumar Sahoo